

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: pmills@cyberhouse.com (Phil Mills)
Subject: Re: 11-PIN CONNECTORS AND SUCH
Message-ID: <199608281610.LAA17372@ns.cyberhouse.com>

> < Fellow baers: Does anyone have a source for the old style plugs used for BA
>rcvrs
> < and xmitters (8 or 11 pins with key slot, I think they are called)? Thanks
>in advance
> < for any help.

Fred Schmidt, N4TT, of Typetronics lists them in his price sheet...

4, 8, or 11 pin plugs at \$2
9, or 11 pin sockets at \$3
snap on shells, \$1
clamp on shells, \$2

others available.

phone is 954-583-1340 & Fax 954-583-0777

I just had a rather pleasant experience in dealing with Fred regarding the 902A scope tube I was looking for. I called Fred but he did not answer and I did not leave a message. He called me back...he must have caller id. Anyway, after several exchanges with Fred calling me on his nickel, he said he thought he had the tube and if he did would \$15 be a fair price (plus \$3 shipping) to which I readily agreed as the AES price was \$32 and they were out of stock. Well, I did not hear from Fred for several days so I called to find out if he had located the tube. Fred replied that he had sent it out to me two days earlier and a bill was included with it. When Fred's bill arrived it was for the \$15 for the tube, the \$3 that he paid to express mail it to me... and _NO_ "handling" charges. You can bet that I'll call Fred first the next time I need a tube or too.

thanks & 73,
Phil

Phil Mills, AB5TH
pmills@cyberhouse.com
713-992-5762
Friendswood, TX (just south of Houston)

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: 6AR8
Message-ID: <3223D28D.76CF@n-link.com>

Looking at the tube manual, it appears that the 6AR8 (sheet-beam tube) is very similar to the 7360. It has two deflection plates as does the 7360, and has an added third (accelerator) grid. Looks like it could be used in the place of a 7360 with a little re-wiring of the socket. Anyone tried this?

--

73,
Dube Todd K4DWW dube3@n-link.com

"The wear on a hypothesis is proportional to the distance between the extrapolation and the experimental results."

-unknown

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: John Kolb <jlkolb@cts.com>
Subject: Re: 6AR8
Message-ID: <Pine.SC0.3.91.960827221931.25455A-100000@sd.cts.com>

On Tue, 27 Aug 1996, D.D. Todd wrote:

> Looking at the tube manual, it appears that the 6AR8 (sheet-beam tube) is
> very similar to the 7360. It has two deflection plates as does the 7360,
> and has an added third (accelerator) grid. Looks like it could be used
> in the place of a 7360 with a little re-wiring of the socket. Anyone
> tried this?

Looks like a better choice might be a 6JH8, which is also a beam deflection tube with higher voltage ratings and transconductance than the 6AR8. Haven't found a 9 pin extender yet that can be rewired to try it out.

73

John

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Dan Kerl <dlkerl@ro.com>
Subject: Re: 6AR8
Message-ID: <322461E0.78EA@ro.com>

D.D. Todd wrote:

>
> Looking at the tube manual, it appears that the 6AR8 (sheet-beam tube) is
> very similar to the 7360. It has two deflection plates as does the 7360,
> and has an added third (accelerator) grid. Looks like it could be used
> in the place of a 7360 with a little re-wiring of the socket. Anyone
> tried this?

Here's a couple of posts, made earlier this year from our illustrious list owner.

Dan Kerl
dlkerl@ro.com

Jim asks:

> ...that would imitate the 7360 tube, which was used in balanced
> modulators in the late '60s and which seems to be made of unobtainium.
> Any ideas?Sure...
the venerable, far more sturdy and equally well used as balanced
modulator, 6JH8

will use the same socket, though wired a tad differently, and with a
Swan schematic for a 500 or 700 (and maybe even a 250 or 350 -- I
can't recall ;^) as a guide, suddenly the microphonics of the 7360 and
the instabilities go away, and the audio comes out more *robust* and
with more power handling...

I did that in an HT-32B long ago with most satisfactory results.

"E.Swain/T.Boyd" <lizboy@io.com> wrote:

> A few days ago someone mentioned the 6JH8 as a possible sub for the
> 7360.Oooops. That was me in a less controlled moment when I was enjoying
the list! ;^)

> My source for tube data is limited to my collection of ARRL
> handbooksOK, I have the basic data for each from the 1973 edition of the RCA
Receiving Tube Manual:

7360

Beam deflection tube

Outline: 6E

Terminal Diagram: 9KS

Heater: 6.3V @ 350ma

150V B+ on each plate

Grid Bias/Cathode Resister: 150 Ohms

Screen: 175V

Screen Current: 2.1ma
Plate Current: 8.5ma
Transconductance: 5400mmho (both plates tied)
Deflection Electrode Voltage: 25 volts

6JH8

Note that the poop sheet says "pin 5 should be connected to the cathode at the socket", and "The 6JH8 should be located in the equipment so it is not subjected to stray magnetic fields" (This also applied to the 7360, BTW)

Outline: 6E

Terminal Diagram: 9DP

Heater: 6.3V @ 300ma

Max Ratings (used as Color TV demodulator)

Plate voltage: 250V each plate

Peak-deflecting electrode voltage (each electrode)

negative 165 V

positive 165 V

Grid 3 (accelerating Grid): 330V

Grid 1 (control grid) positive bias value: 0V

Cathode current: 33ma

Plate dissipation (each plate): 3 watts

Grid 3 input: 1 watt

Grid 1 circuit resitance (max)

for fixed-bias operation: 100K

for cathode-bias: 250K

As a Class A amplifier:

Plate Voltage (each plate): 250V

Grid 3: 250V

Cathode bias resister 220 ohms

transconductance: 4400 micromhos

Total Plate Current: 14ma

Grid 3 current: 1.5ma

Grid 1 Voltage (for total plate current of 10 uA): -13V

> I see AES lists the 6JH8 for \$5.20.EXACTLY!!! At the time I replaced the 7360 in my Halli HT-32B with the 6JH8, 7360s were about \$11 and the 6JH8 was \$1.85 (c. 1976)

I sold the HT-32B and the manual with my notes and sketches went with it, but I recall using the SWAN 500 or 700 as a model for the connections to the pins, which did require rewiring the socket.

I did *NOT* have to mess with the other components in the circuit to get it to work *flawlessly*... so, the mod is fairly non-invasive and quite reversable... just re-solder the socket terminals and shove a

7360 back in....

I talked with Chuck D about the mod way long ago, and he was interested in the performance, and we had several QSOs on various bands under various conditions... the 6JH8 made for fuller and better sounding audio, handled power loads better than the 7360, and was not likely to go nuts if ya stomped yer boots as ya bounced into the shack! ;^) The sideband/carrier suppression was superior with the mod, and I was a happy camper... but that was long ago and far away... Guarantee that YMMV! ;^)

--

73

Jack, W4PPT/Mobile (75M SSB 2-letter WAS #1657/#1789 -- both all mobile! ;^)
- - - BoatAnchor Mailing List Archiver/Owner - - -
firebot1@jackatak.theporch.com ---- listown@jackatak.theporch.com

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: JIM_ALLEN@HP-Cupertino-om5.om.hp.com
Subject: 8122 Tubes
Message-ID: <H000030e05913598@MHS>

Item Subject: cc:Mail Text

I'm in need of some 8122 finals for my SR-2000. Anyone out there got any?

Regards,

Jim

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Bob Roehrig <broehrig@admin.aurora.edu>
Subject: BC-348 RF amp mods
Message-ID: <Pine.ULT.3.95.960828193859.18244A-100000@admin.aurora.edu>

There have been enough replies to my comments about a front end mod for the 348Q that I will share it with all since it is not too long. I'm not sure what versions of the 348 this may apply to nor do I know what improvement this offers. Perhaps one of you that has the time and proper test equipment will let us all know if this simple mod is worth-while. It can easily be reversed.

There were 2 articles regarding 1st RF amp mods to the BC-348Q by Paul Kersten WOWIT (QST for Jan & Nov 1947).

The 1st article recommends changing the stage from triode to pentode

operation as follows: Remove connection between screen and plate pins. Connect 70K (68K) resistor from screen pin to B+. Bypass screen to ground with .01 cap. Next remove the 1st RF amp cathode circuit from the gain control line as follows: Remove wire running from cathode of 1st RF amp and 2nd RF amp. Connect 1st RF amp cathode to ground with a 250 ohm (220 ohm) resistor and bypass with .01 cap. That's all there is to it.

In the November article he recommends replacing the 6SK7 with a 1852. To make that work properly, change the plate load resistor from 15K to 2K. Reduce the screen resistor from 70K to 10K. Reduce the cathode resistor from 250 ohms to 150 ohms. I have not tried this mod nor did I remove the grid resistor from the AVC line.

As I also mentioned, I made other mods to my 348, including adding a product detector, which in my opinion, make this a "real" receiver. Anyone wanting my complete mods, contact me directly with your name and address.

E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: ks0f@i1.net (MIKE SANDERS)
Subject: CE 100V. SX101mkIII knobs, HW16
Message-ID: <199608282238.RAA21541@mail1.i1.net>

Greetings All,

CE 100V serial E 45 came home today. Is that a beautiful piece of gear or what? I have been waiting for this for about a year. It powers up but I have not tried to tx with it yet. Later tonight. The guy assured me it worked ok. The original manual came with it and the tx appears to have no mods. The front panel is perfect and there is some discoloration and a few marks on the cabinet. Some marks on the chassis but again not bad at all.

Along with the 100V came a Halli SX101mkIII. All the small knobs are not standard. Anyone got any to let go of? The notch controls, the dial pointer and the ant trimmer are the ones not standard. The rx works and tunes ssb nicely but I will probably move it. I had to take it to get the 100V.

The fella also brought by a very clean Heath HW16 that he wants to sell for about 75. Any interest?

ks0f@i1.net

73, KS0F Mike

P.S. This same guy told me he had a Heath SB110 with supply that he wanted to sell.

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Dale Braun <dale.k.braun@uwrf.edu>
Subject: Central Electronics MM-2 Manual Needed
Message-ID: <s2244457.027@adngate.adn.uwrf.edu>

You may have read from my recent post that at a hamfest this past weekend I acquired a Central Electronics MM-2 monitor scope. I checked the inventory at W7FG and he/they don't have a manual for that particular piece of equipment.

Does anyone on the list have such a manual or a copy they would be willing to copy and send me for their costs? Please respond to:

Dale Braun

WD9GWH

Dale.K.Braun@uwrf.edu

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: "D.D. Todd" <dube3@n-link.com>
Subject: Re: CRYSTAL TEST OSCILLATOR
Message-ID: <3223D99F.2F67@n-link.com>

Benjamin D. Hall wrote:

>
> Okay fellow fine firebottle fanatics, this is my first attempt at
> ascii schematic work, so no laughing!
>
> Judging by the 20 or so e-mails I got, I figured this would be
> appropriate to post to the list. Feel free to put it into web pages, Ba
> archives, whatever, but please give credit to Mr. William L. Smith,
> W3GKP, the author.
>
> It is from Hints And Kinks, Volume VII, page 105.
>
> "The circuit shown [below] was circulated among MARS members recently.
> [editors note: recently is 1965, 8 years before yours truly was born!]
> It will oscillate with any good crystal having a fundamental frequency
> between 3 and 20 Mc. No tuning is necessary. The output is sufficient
> to be heard in a receiver or to be measured with a frequency meter.
>
> The transistor, Q1, shown [below] is very inexpensive. Other p-n-p
> types may be used, such as the 2N1178 through 2N1180, or the 2N1742.
> The transistor may be wired in the unit or mounted in a socket. If a
> socket is used, the device can also be used to check the oscillating
> ability of different transistors.

> ENJOY!

>

> 73,

> Ben

> --

> -----

> From the computer of

> Benjamin D. Hall, Houston Texas

> BDHall@GHGCorp.com -or- BHall@GP802.JSC.NASA.gov

OK, but what are them funny-looking things that look like "K"s?

:)

--

73,

Dube Todd

K4DWW

dube3@n-link.com

"The wear on a hypothesis is proportional to the distance between the extrapolation and the experimental results."

-unknown

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996

From: Ornitz_Barry <ornitz@eastman.com>

Subject: Dinner Reservations for Shelby Hamfest

Message-ID: <199608280205.AA21073@eastman.com>

The following dinner reservations have been received. If you have not sent yours in yet, please do so as quickly as possible. If you note an error in this list, please notify me too. I will be calling in the reservations Thursday morning so please hurry.

The Friday Night dinner will be at the Royal Pavilion Chinese Restaurant in Gaffney, SC. They are located at 1400 West Floyd Baker Boulevard. Take the SC-11 turnoff on I-85 and go south a few blocks. Due to popular demand (Nick promised to beat me up if I didn't agree!), Friday's dinner will begin at 8:00 PM. This gives those hunting the flea market a little more daylight. We cannot start too late or no one will get any sleep and be awake the next morning!

As of now, the Saturday night dinner is still a little fuzzy in details. The preferred place is Shelby Fish Camp at 1025 East Dixon Boulevard in Shelby which is US-74. I will call them tomorrow to see if we can get reservations. We are thinking that Saturday's dinner will be fairly early after the hamfest closes. Everyone will be tired and looking for a cool place to sit down. Both restaurants come with very good

recommendations. For those heading to the hamfest early, we will pass the word out there. Look for Nick England's spot or call on the repeater Carl Whitaker, WD4MGM, posted earlier.

I'll post a little more tomorrow but thought I would get this list out tonight. Both places are inexpensive (or were) and we are not planning anything fancy - just some good food and some good boatanchor friends.

FRIDAY NIGHT DINNER ATTENDEES

Tom Bridgers KE4RHH
Tim Buehlmann N4IQA
Nick England KD4CPL
Jack Hill W4PPT
Dave Hockaday WB4IUY
Haney Howell NO2N
Steve Kasten -----
Bob Keys NA4G
Bruce Martin KQ4TV
Barry Ornitz WA4VZQ
John Poulton -----
Marty Reynolds AA4RM
David Thomas K4SAN
Larry Ware -----
Carl Whitaker WD4MGM
David Wood WB4KPD

SATURDAY NIGHT DINNER ATTENDEES

Tom Bridgers KE4RHH
Tim Buehlmann N4IQA
Nick England KD4CPL
Jack Hill W4PPT
Dave Hockaday WB4IUY
Haney Howell NO2N
Steve Kasten -----
Bob Keys NA4G
Bruce Martin KQ4TV
Barry Ornitz WA4VZQ
John Poulton -----
Marty Reynolds AA4RM
Al Stephens N5AIT
David Thomas K4SAN
Larry Ware -----
David Wood WB4KPD

I hope I got these right, so please correct me and if you want to be added, send me email as quickly as possible. Mail to the address shown

below. Thanks. We may even beat Dayton in attendance!

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Glenn Finerman <GFINER@nms.com>
Subject: Dynakit
Message-ID: <s224597f.031@nms.com>

Does anyone know who was looking for Stereo 70's on the list?
Someone posted a request for old Dyna tube amps and I have
an original Stereo 70 and PAS-3 preamp for Sale/trade.

(always looking for BA's!!)

Glenn N2BJG GFINER@NMS.COM

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: w5tvw@juno.com
Subject: Re: ELEC. CAPS / CAP TYPES / RATINGS
Message-ID: <19960828.084859.8127.4.W5TVW@juno.com>

The references I referred to should read:

"The Radiotron Designer's Handbook"- 4th Ed. by F. Langford
Smith. Published in the USA by RCA. circa 1956.

"Radio Engineering Handbook"- Keith Henney published by McGraw
Hill. A very good chapter on capacitors in this text.

"Radio Engineers" Handbook"-F. E. Terman- Mc Graw-Hill circa
1943. An excellent text covering a lot of ground.

All these are getting rather sought after. Mine are YEARS old!
I bought the RCA book in 1956 right after it came out for \$6.75. In the
late 50's when I bought "Terman's", it was rather expensive at the time.
I think I bought the Henney book in around 1965 for around \$25 which was
expensive at that time! I used to keep the local library's copy for
weeks past due!

73,

Sandy Blaize, W5TVW

Boat Anchors collected, restored, modified, traded & used!

w5tvw@juno.com

417 Ridgewood Drive,

Metairie, LA., 70001.

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Glenn Finerman <GFINER@nms.com>
Subject: Electric Radio
Message-ID: <s2240c72.004@nms.com>

Thanks to the MANY who responded to
my request for info on Electric Radio...

RE>

14643 Road G
Cortez, CO 81321-9575
(970) 564-9185 phone/fax

email address <er@frontier.net>

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Ronald Steinberg <rhstein@interaccess.com>
Subject: Famous BA author spotted at Elgin Il Radiofest
Message-ID: <199608280424.XAA26374@oxywhite.interaccess.com>

Talked to Chuck Dachis this afternoon at the at Elgin Radiofest
and he agreed to autograph all copys of "Radios By Hallicrafters"
presented to him there. Some neat old stuff was viewed.
Will keep you posted as to BA sightings .

73 RON K9IKZ

Ron Steinberg K9IKZ rhstein@interaccess.com
 512 S Cherry Itasca Il 60143
 630 773 3583 hm 630 773 0822 hm fax

At work: rentcom@mcs.com http://www.rentcom.com
 847 678 7000 wk 847 678 9378 wk fax

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: dgibbs@rational.com
Subject: Re: Flap on R-390A Veeder Root Counter
Message-ID: <Chameleon.960828070057.dgibbs@>

On Tue, 27 Aug 1996 18:06:08 -0500 (CDT) merrigan@ee.ualberta.ca wrote:
>
>
>I say:
>
>>Tom Kelly wrote:
>>>
>>> Greetings,
>>>
>>> My new R-390A has a flap permanently mounted over the Veeder Root
>>> Counter. Whenever I want to see the frequency, I must lift the flap t
>>> view the display. I'm curious, I've never seen this before. What's i
>>> purpose? Was it common or unusual?
>
>I have one of these too (I think it is in my R390A spares box). If I
>recall correctly it has a piece of felt on the back to protect the
>readout's glass.
>
>Shaun

I am curious: For those of you with R390As that came with this
flap over the frequency readout, do they share any common attributes?
Specifically, what contract and serial numbers are they? It would
be interesting to see if all R390As with this feature are from
the same contract.

Dennis

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Tom Kelly <tjkelly@apk.net>
Subject: Re: Flap on R-390A Veeder Root Counter
Message-ID: <32243E4E.1E34@apk.net>

dgibbs@rational.com wrote:
>
Dennis,

To answer your query, my new R-390A (I got it last week from Fair
Radio), has contract: 14214-PH-51, Collins, Serial Number: 483. Beyond
that it is remarkably free of markings or stamps visible from the
outside. I have not yet disambled anything; there might be some
information there. If during disassembly I find anything interesting, I
will let you know.

Let us know if you come up with anything.

Tom

> I am curious: For those of you with R390As that came with this
> flap over the frequency readout, do they share any common attributes?
> Specifically, what contract and serial numbers are they? It would
> be interesting to see if all R390As with this feature are from
> the same contract.
>
> Dennis

--

Tom Kelly
Novelty, Ohio

mailto:tjkelly@apk.net

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Tom Kelly <tjkelly@apk.net>
Subject: Re: Flap on R-390A Veeder Root Counter
Message-ID: <322464AF.DB9@apk.net>

Dave,

Do you mean more R-390As or more R-390As that have this flap? I have no idea about the latter. But yes they sell R-390As in three conditions:
1). "As-is" less meters, ballast tube, BFO, and covers "visually inspected only" for \$150
2). "Repairable" less meters for \$200
3.) "Checked" \$325.

My understanding is that repairable, which is what I purchased, means they turn the unit on and tune to a local AM station and verify that the unit is physically complete and intact. I have had to only replace one tube and so far have a good, solid well-functioning unit. Obviously it will benefit from alignment etc. But I am very pleased with what I got for \$200.

Give them a call: 419-223-2196

I have no connection with Fair, just a satisfied customer.

Tom

Dave Hockaday wrote:

>

> Hi Tom. Does Fair radio have any more of these, and what do they go for??

>

> Thanks,

> Dave Hockaday WB4IUY

--

Tom Kelly
Novelty, Ohio

<mailto:tjkelly@apk.net>

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996

From: "Barry L. Ornitz" <u856010@eastman.com>

Subject: Flattening Plastics - deep theory!

Message-ID: <Pine.ULT.3.91.960828192637.22183A-1000000@dua150.kpt.emn.com>

I really was hoping I could discuss this subject without having to write a long discussion on plastics. Unfortunately I must have left some residual questions with some readers. So with the group's indulgence, allow me to answer some of these. Raymond Cote wrote:

> One thing I noticed in the past postings is the material cellulose
> acetate and cellulose nitrates. Me thinks these are VERY flammable
> materials----the old cellulose movie film being the one I am very
> familiar with. I use to burn scraps of the stuff just to watch it
> go up in a flash, depending on its age.

The plastic cellulose esters and cellulose nitrate explosives are chemically related but have very different properties. I think I can address this well since the entire 76 year history of Eastman Chemical Company has revolved around cellulose esters. Originally part of Eastman Kodak, we began manufacturing cellulose acetate in the 1920's.

Nitrocellulose was one of the first synthetic plastic materials. Its early history dates to approximately the same time as the discovery of nitroglycerin by Sobrero with the independent research by Schœnbein at Basel and Böttger at Frankfurt-on-the-Main. Cellulose is a naturally occurring carbohydrate polymer composed of many units of anhydroglucose linked together. In this repeating unit, there are three hydroxyl groups which may be reacted with a strong acid to produce cellulose esters. In nitrocellulose for explosive use (gun cotton), complete nitration is desired to produce the trinitrate with 14.14% nitrogen. However, for use as a plastic, the nitration is stopped before all the

hydroxyl groups are reacted, the degree of reaction having a considerable influence on the properties of the final material.

Collodion or pyroxylin is the name generally given to partially nitrated cellulose used for pharmaceuticals, lacquers, and photographic film. Archer is credited with the invention of collodion photography in 1851. Celluloid, considered one of the first manmade plastics, was patented in 1870 by J. W. And I. S. Hyatt. It is made by dissolving collodion nitrocellulose in camphor by means of heat and pressure. The camphor was an early form of plasticizer.

Celluloid was one of the first-used clear plastics. Little remains today because it was learned very quickly that nitrocellulose is unstable and will decompose upon exposure to air and moisture. It will even decompose under vacuum but not nearly as quickly. Evaporation of the camphor and degradation of the nitrocellulose meant that celluloid plastic quickly shrunk and turned brown or yellow. I would not expect ANY radio equipment manufactured after 1930 to have any celluloid present - especially not for dials that would be illuminated.

With the popularity of motion pictures and the hazards of burning film that Cote refers to, the film industry eventually turned to isafety filmî or cellulose acetate. This is when Eastman Chemical Company began its growth. Cellulose acetate for safety film led to cellulose acetate for fibers (Chromspun, an artificial silk). The need for an even better photographic film substrate led to polyesters which led to Kodel fibers and finally to the bottle polymers of today.

Cellulose acetate and to a lesser extent cellulose acetate-propionate and cellulose acetate-butyrate are likely to be the only common cellulosic plastics found today. They are used extensively in eyeglass frames, toothbrush handles, steering wheels, and Craftsman screwdriver handles. These esters are flammable but no more so than the other plastics I listed (with the exception of polyvinyl chloride). I suspect that many of the tan or brown colored dials of the 1930is were made from cellulose acetate plastics. These will certainly darken with age and will also get rather brittle. These polymers are normally used with plasticizers; with aging, these plasticizers evaporate leaving a much more brittle plastic. [That yucky film that coats automobile inside windows is usually plasticizer from the vinyl dashboard and seats that evaporates when the car is parked in the sun in the summer. As the plasticizer leaves the vinyl seats, they crack and get brittle too. Armor-All, which has some other very useful applications, really does not re-plasticize old vinyl.]

The glass-transition temperatures I listed yesterday are, as I noted, quite variable with cellulosic plastics. Plasticizer content, moisture content, degree of substitution (what percentage

of all possible hydroxyl groups are reacted), etc. will affect this. The best bet is to start with as low a temperature as possible and see what happens. If the warp cannot be removed, increase the temperature 10 to 20 degrees F (5 to 10 C) and heat for a few more hours. Once you get above 212 F or 100 C, you start running a severe risk of damaging the plastic if you are working with cellulose.

Ray later added:

> Next item I noticed is the mention of placing some wet paper
> towels under the plastic when heating it up. If the plastic
> get hot enough to get soft and thus pliable (able to be
> flattened,) the "grain" of the paper towel might be forever
> molded to the plastic plate or glass "presses" Better to keep
> the objects that are in contact with your plastic dial to be as
> flat as possible, just as was suggested in the first response.

It is important to note that the temperatures I listed were the glass transition temperatures, and not the heat deflection or melting temperatures. There are some very important differences that I hate to bore the group with discussing. However the distinction must be made to understand plastic behavior. At this point, it is probably best to quote a reference rather than try to explain the phenomena myself. Quoting W. A. Lee and R. A. Rutherford from J. Brandrup's *Polymer Handbook*:

The Tg of a polymer is a characteristic of the amorphous (non-crystalline) region... At the Tg, a discontinuity occurs in the temperature and pressure derivatives of the energy, heat content, entropy, and volume, but these quantities are continuous functions of temperature; for this reason Tg has been referred to as a second-order transition though it only has some of the characteristics of such a transition. There is an abrupt increase in the coefficient of expansion and specific heat, but no absorption of latent heat when a polymer is heated through Tg...

The Tg is interpreted in terms of molecular behavior as the temperature above which the polymer has acquired sufficient thermal energy for isomeric rotational motion, or for significant torsional oscillation to occur about most of the bonds in the main chain which are capable of such motions in the undegraded molecule.

The glass transition temperature is thus a better-defined term than other commonly used transitions such as softening point, flow temperature, heat deflection temperature, and melting point. This

is because, unlike crystalline materials, polymers tend to soften and melt over a range of temperatures. Furthermore, polymer melts tend to be quite viscous unless raised to temperatures well above where they would normally be considered melted.

The significance here is that if a polymer is heated above its T_g and mechanically deformed, when cooled below its T_g it will tend to retain its new shape. While heated above T_g by only a small amount, the plastic will still tend to be stiff and not flow readily. The possibility of iembossing plastic with a paper towel as Cote suggests is quite small UNLESS your oven has poor temperature control and you heat the plastic to much higher temperatures than you planned to. This is not uncommon with most home convection ovens and is the reason I mentioned that you need precise control of the temperature. If you were to heat a dial to a high enough temperature to soften it enough to be embossed, it is also very likely that the dial will be soft enough to be extruded from between the glass plates deforming it further still! As for Ray's suggestion that you might emboss the glass, I suggest you consider that the normal boiling point of water is well below the temperature at which glass reaches its T_g . ;-)

I mentioned earlier in my previous post that the glass transition temperature of cellulosic plastics is quite variable. Since the cellulose backbone structure is that of a carbohydrate, moisture can ierelax the backbone through chemical interactions. The moisture thus may allow the plastic to soften at a lower temperature than otherwise might be obtained. It is certainly worth trying.

The use of heavy iplate glass is worthwhile. Remember to heat and cool it slowly to avoid thermal stresses. If you can control the temperature well, heating the dial to just slightly above its T_g and keeping it there for several hours is a relatively good technique. If you are in a hurry, you can use higher temperatures, but you do so at your own risk.

I apologize if this bored most of you. The information is useful, though, because plastic properties are seldom discussed in amateur publications. I hope it was at least educational. OK class, you can wake up now! :-)

73, Barry L. Ornitz WA4VZQ ornitz@eastman.com

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Tom.Daley@530.gigo.com (Tom Daley)
Subject: fs: 2 ssb transmitters
Message-ID: <0fd_9608281316@gigo.com>

hello ba people, the following has to go !!

*

1. drake tx4b, complete with no mods, works good, front panel and chassis in good shape (some scratches on case and wear on main tuning knob). with original manual. with ac4 power supply. no mic (sorry). \$125

2. kenwood t599, no mods, works but needs rubber belts for driver tune and pa grid tune (stole them for a hw101, sorry), front panel and chassis is very clean. with manual (owners and service). case has some scratches and is missing some screws. this would be a good match for the r599 receiver, its long lost twin !! no mic. \$100

*

*

above is plus shipping. trades ????? offers ???
dont be shy - thanks tom

--

: Fidonet: Tom Daley 1:203/530 .. speaking for only myself.
: Internet: Tom.Daley@530.gigo.com

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: william wiggins <bwiggg@worldnet.att.net>
Subject: FS: HW101
Message-ID: <19960828031915.AAA29232@LOCALNAME>

A local ham contacted me about wanting to sell his HW-101. He says he has the power supply and speaker as well as all the manuals. Please contact him at 912-432-1913. Ask for Charles. I have not seen the radio or know anything about.

Please do not contact me about it. Charles has no Internet access.

73's

Billy

Bwiggg@worldnet.att.net

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: "Gary H. Harmon, Jr." <gharmon@txdirect.net>

Message-ID: <199608280424.XAA01595@legend.txdirect.net>

35.520 (10D)

[illegible]

For trade: TS-509/UR wavemeter/field strength meter.
Covers 90- 420 Mhz, with antenna. Sensitive 50 ua. meter. Uses
"butterfly" tank circuit. Excellent condition.
Trade for???

Sandy Blaize, W5TVW
Boat Anchors collected, restored, modified, traded & used!
w5tvw@juno.com
417 Ridgewood Drive,
Metairie, LA., 70001.

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996

From: Bob Duckworth <rmd@ka4ybr.netmha.com>
Subject: Globe DSB 100 manual or schematic desired.
Message-ID: <199608281651.MAA31420@ka4ybr.netmha.com>

Dick and I are both looking for some docs on Globe DSB100.

Looks pretty straight forward but being lazy to RE (reverse engineer)
a copy of the schematic will be much appreciated.

I had one of these as a novice and upon opening up the one that
showed up today my feeling were the same. Nice radio but why such a
cheesy tank?

If you're unfamiliar, Hefty PS with 5U4GB, choke, and cap.
Pair of 6DQ6 as final set up as balanced modulator in
grid side to gen DSB.

-bob
WB4MNF

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: JOHN_SEHRING.parti@ecunet.org
Subject: GRAYMARK REGEN KIT -- AC/DC HOT CHASSIS RADIOS
Message-ID: <9608281700.aa18931@pcusa01.ecunet.org>

Do NOT think about putting a 3-wire cord on a hot chassis radio!

With a 3-wire cord on one of these, if the wiring at the AC wall socket is
wrong (it's really easy & common to interchange the hot & neutral), you'll
get a huge spark & blow circuit breaker when you plug the thing in even if
the radio's turned off!

A polarized plug is the way to go but check the AC wall socket(s) for
correct wiring too. If they're wrong, your protection is an
illusion until sparks fly!

Remember, the wider blade is neutral, the narrow one is hot. Easy to check
with a portable voltmeter (don't do this with an AC-operated voltmeter).

-John Sehring (08/28/96 10:32 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Mark Shelhamer <ms@space.mit.edu>
Subject: Graymark regen kit -- my first "BA"
Message-ID: <199608280223.VAA09808@uro.theporch.com>

This is kind of a followup to Larry Ware's recent post on the Graymark regen SWR kit. I too was lucky enough to get one from Doug Ripka. This was the VERY FIRST shortwave receiver that I ever owned. I built it in electronics shop class in junior high school -- that would make it right around 1972-1973. (I may have the original manual in "remote storage"; if so I will check the copyright date on it.)

As I recall, those of us who elected to take electronics shop had to choose a project, and the list of projects was essentially the Graymark catalog. The school then placed a group order, and everything was shipped to the school. This might help explain how a school could have a stock of these things just sitting around. We built them in the class, then took them home. Within a few years, I had disassembled the receiver and used the parts in various places in my novice station of the time. I still recognize some parts of it in my shack (I used some of the knobs on a homebuilt GDO, etc.). I never in my wildest dreams thought that I would ever see one of these things again, much less in pristine kit form -- this was a special find for me, and I'm grateful to Doug for making one available. (Many thanks Doug, and that's a fine BA haven that you have there at your place.)

Apparently the models that Doug acquired were modified from the version that I built. For one thing, I don't recall that the BCB coil was prewound in the original that I had (memory could fail me on this -- the manual would know). Of course, you should have a known good coil to be able to troubleshoot the circuitry, and I suspect that so many problems were cropping up in the coil winding that Graymark decided to give the instructors a break and supply one coil prewound. Although as Larry points out, I do recall that winding these coils was easy and rather enjoyable because of the size of the forms and the ridges in them to hold the turns in place. The other change that I can see is that the original air variable caps (for tuning and bandspread) were replaced with the smaller enclosed plastic types. If I can find the originals, I might build the new kit with the old caps. (There even seems to be a hole punched in the new chassis to accommodate the lugs of the older air variable tuning cap.)

I glanced at the schematic, and also as Larry points out, this thing could be a death trap as originally wired -- no polarized plug and no power transformer (and a metal chassis that does not get covered with a cabinet)! So at the least I will use an isolation transformer and a fuse, but I am undecided about using a 3-wire cord (I know it's the right thing to do, and I've made that mod to other BA gear, but I have a special reason for keeping this one in original condition -- I'd consider getting an isolation xfmr dedicated to just this one rig).

So that in a nutshell is my story of the Graymark 511(A). I'm looking forward to building it with loving care and putting it right next to my bed just like it

was 20+ years ago.

Mark WA3YN0
ms@space.mit.edu
mjs@ishtar.med.jhu.edu

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: scotgray <scotgray@cwnet.com>
Subject: Hammarlund HQ-145 Project FS
Message-ID: <3223B21A.66EC@cwnet.com>

I have promising HQ-145(no "C" just the H window)that needs a little more TLC than I have time to provide. Cosmetics: All original knobs, Front Panel needs a wash, minor scratches near freq windows, cover/case very clean-maybe some minor scratches(didn't notice). Electrically: Worked great until I got some spare time. Some gunk the upper side of chassis, component side sparkles. Rectifier replaced with diodes when a 455 IF can was replaced in 1981 (marked on inside). Turned it back on after a good scrub of the top chassis, shut it down right away after some arcing. Asking \$75 bux but won't turn down a reasonable offer. Prefer pickup but will consider shipping from Cameron Park (near Sacramento, Ca.).

73,

Scott KD6CQ
scotgray@cwnet.com or KD6CQ@KM6PX, Day phone (916)642-4990,eves
(916)677-0303

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Joe Serocki <JSEROCKI@allstate.com>
Subject: HELP with motorola repeater
Message-ID: <s2237a06.009@allstate.com>

I have recently acquired a motorola tube repeater, and it seems to work!!!

However, I have no manuals, etc. and need info on it.

Here's the specs:
model: BGKB-3100B-SP66
TRANS TYPE: CC3026
SERIAL NUMBER: G96944

assemblies include:
power supply: SP3408045
?: SP28 (K-9058)
?: CPS1800

Tuning unit: TU405
?: SP241 (P8066P-3)
tuning unit ?:TU217
rcvr: TK319-3
xmtr: TTD6150AC

Any help, source of manuals, xtals, etc. is most appreciated, as I would like to get this monster on the air....

73

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Joe Serocki <JSEROCKI@allstate.com>
Subject: Help with RCA vhf mobile
Message-ID: <s2237a7f.010@allstate.com>

I have acquired an old rca vhf mobile, series 700 stamped on the back.

any ideas, source of manuals, etc is most appreciated.

73

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: w5tvw@juno.com
Subject: Hickok 800A info?
Message-ID: <19960828.105626.8127.0.W5TVW@juno.com>

Hello Gang!

Does anyone out there have a book for a Hickok model 800A they can photocopy? Also the "Supplementary Settings" that are not on the roll chart.

73,

Sandy Blaize, W5TVW
Boat Anchors collected, restored, modified, traded & used!
w5tvw@juno.com
417 Ridgewood Drive,
Metairie, LA., 70001.

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: jcall@sirius.com (Jim Carrington)
Subject: Re: HQ-150 Hammerlund
Message-ID: <199608280515.WAA28913@mail1.sirius.com>

Hi Larry,

>From what I've heard, this receiver is fairly rare but it does turn up for sale probably several times a year in magazines like Electric Radio and ARC. I recently bought one in good cosmetic condition thru ER for \$175 plus shipping (missing original audio gain knob). I have not had a chance to try it out yet but I will real soon. It is similar to the HQ-140 but has a Q multiplier built in along with the crystal filter. Two case styles were made , one which looks like the HQ-140 and 150 shown in Moore's book and has probably a hammertone finish and the other ,made later, which looks more like a Collins 75A4 case with recessed handles, square corners and wrinkle finish (brown). I think its a very handsome receiver in this cabinet. It's the last in the Hammarlund single conversion general coverage line starting with the HQ-120 , and then 129X, 140, and 150.

73S

Jim Carrington

>OK Guys I need a favor...

>

>I have a line on a working HQ-150 with matching speaker.

>Comments on a fair price for this, comments on how

>well they work, comments on how rare or common they are,

>etc. etc. etc.

>Would all be very welcome if e-mailed to:

>lrware@aol.com

>

>

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996

From: "Benjamin D. Hall" <bdhall@ghgcorp.com>

Subject: Re: HQ-150 Hammerlund

Message-ID: <322428B1.59A8@ghgcorp.com>

Jim Carrington wrote:

> multiplier built in along with the crystal filter. Two case styles were made
> , one which looks like the HQ-140 and 150 shown in Moore's book and has
> probably a hammertone finish and the other ,made later, which looks more
> like a Collins 75A4 case with recessed handles, square corners and wrinkle
> finish (brown). I think its a very handsome receiver in this cabinet. It's
> the last in the Hammarlund single conversion general coverage line starting
> with the HQ-120 , and then 129X, 140, and 150.

Hhmm, Interesting! My HQ-150 looks like in Moore's, with the rounded corners and a dark gray wrinkle finish. Now, the HQ-140XA that lives beside it (they are good friends) has a gray finish, but is not wrinkle but glossy! Very interesting, as they were made during approximately the same years.

73,
Ben

--

From the computer of
Benjamin D. Hall, Houston Texas
BDHall@GHGCorp.com -or- BHall@GP802.JSC.NASA.gov

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: john <johnmb@mindspring.com>
Subject: HR0 50-R1
Message-ID: <2.2.16.19960828185711.3d27420a@pop.ral.mindspring.com>

I have a line on a "nice" HR050-1-R with "all coilsets...eight
or nine of them... from 30khz-30Mhz".

My questions for you: what is a fair price for a working unit
such as this, and what coilsets are there in total for this radio...

Finally, what are your thoughts about the quality of this
radio?

Thanks very much!
/john

+-----+
|John Brewer johnmb@mindspring.com |
|WB50AU/4 AMI #24 |
|Vintage Gear web page: <http://www.mindspring.com/~johnmb/> |
+-----+

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: re HW-16 Restoration
Message-ID: <199608281312.JAA11634@mail.peterboro.net>

>I'm in the process of restoring an HW-16 (my first restoration attempt).
>The manual I got with the rig is a W7FG reproduction, but is incomplete.
>Does anyone have either an original manual, or clear copies of the top &
>bottom chassis illustrations, location of components, test points and

Bob: A good friend of mine has a manual and rig, if you need a copy I will borrow it and copy it and send it to you. This means a side trip when I go to the city so this is a contingency offer, if other sources on here fail....

I wanted to try and buy his rig but he is not ready to sell it yet.

Larry
va3lk / wa3zia

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Mike Maloney <ac5p@ionet.net>
Subject: Johnson Navigator: WTB/TRADE
Message-ID: <199608290018.TAA25266@mail.ionet.net>

Hello BA Fans,
Does anyone have a Johnson Navigator that they would part with? I have Challenger that I would trade w/boot or sell seperately.
73/Mike/AC5P

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Neal McEwen <nmcewen@metronet.com>
Subject: More Books FS
Message-ID: <3224F6EF.BB0@metronet.com>

More books I don't need from my library. First come, first serve.
Tell me you want it and I'll reserve it. I'll ship it to you.
If you don't like it, send it back to me. Real simple. Will trade for books I don't have, especially Telegraph books. You pay postage.

1. Radio Operating Questions and Answers, Nilson & Hornung, 1929, fair to poor conditon, spine loose. Spark and Arc transmitters and more. \$8
2. Theory of Thermionic Vacuum Tubes, Chafee, 1933, 652pp. Engineering Text very good. \$20
3. The Radio Boys with the Revenue Gards, Gerald Breckenridge, 1922, popular juvenile fiction, very good. \$22
4. Radio Theory Simplified, Merle Duston, 1924, elementary treatise on receivers, illustrated cover with horn speaker, good. \$20

--

73 de K5RW, Neal McEwen nmcewen@metronet.com - Richardson, TX (Dallas)
WWW Page for Telegraph Key Collectors and Historians
<http://fohnix.metronet.com/~nmcewen/ref.html>

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: "F r6fqHo!ht" <75121.100@CompuServe.COM>
Subject: More flattening plastics
Message-ID: <960828072912_75121.100_IHV31-5@CompuServe.COM>

Hi Gang!

One thing I noticed in the past postings is the material cellulose acetate and cellulose nitrates. Me thinks these are VERY flammable materials----the old cellulose movie film being the one I am very familiar with. I use to burn scraps of the stuff just to watch it go up in a flash, depending on its age.

The old theatre I use to work, as a projectionist, had a 55 gal drum outside the window. If a reel of film caught fire, there was not much time to get the hook out, snatch the burning reel and dump it into the 55 gal drum.

So, if you heat up anything old, dis-colored and such, be very careful.

Next item I noticed is the mention of placing some wet paper towels under the plastic when heating it up. If the plastic get hot enough to get soft and thus pliable (able to be flattened,) the "grain" of the paper towel might be forever molded to the plastic plate or glass "presses" Better to keep the objects that are in contact with your plastic dial to be as flat as possible, just as was suggested in the first response.

Regards from Hawaii,
Raymond J. Cote

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: billo@nti.net (Bill Wilson)
Subject: National 183D variation
Message-ID: <19960828222815269.AAA282@LOCALNAME>

National fans,

I was looking for a schematic for a "early" production run of the 183D. The set here is #0096 and someone wrote with a crayon on the bottom plate a date from 1954. This early set differs from all manuals and circuits diagrams I have seen for the 183D. The biggest difference and easiest to find is the use of a 6J5 as the phase inverter on the early sets. On the regular 183 the 6J5 was used too. Later 183D sets used a 6SN7 as the phase inverter as well as the s-meter amp.

The problem I have is the s-meter and gain of the radio is erratic

at times. The 2 meg variable s-meter "zero" pot for the s-meter has no effect on the movement on the meter. I have had this radio for over two years and it has always had this problem, I just felt like now was the time to finally fix this fine radio.

Thanks,

Bill
AC4LC

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: Need copy of Multic-Elmac M-1070 schematic
Message-ID: <01I8SBDLP5NM000A0E@ACS.EKU.EDU>

..as the subject says...

REstoring the AF-68 transmitter and am ALMOST there: got tubes checked, whole thing cleaned up as mouch as it is going to, and have had partial power to it (lights, filaments, low voltage supply: the VFO sounds really nice).

Now I have to find out why the high voltage is not getting through, and why the switching relay in the M-1070 power supply is not working. A schematic for the M-1070 power supply would really help. It is an AC/DC supply for 115 VAC or 6 VDC...(probably easily altered for 12 VDC).

Any help would be greatly appreciated!
73, Al N5AIT
modsteph@acs.eku.edu
Richmond, Kentucky

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: JIM_ALLEN@HP-Cupertino-om5.om.hp.com
Subject: Re: Need copy of Multic-Elmac M-1070 schematic
Message-ID: <H000030e05911d98@MHS>

Item Subject: Need copy of Multic-Elmac M-1070 schematic
Al,

If you haven't got the schematic yet let me know.

Jim

----- Reply Separator -----

Subject: Need copy of Multic-Elmac M-1070 schematic
Author: Non-HP-boatanchors (boatanchors@theporch.com) at HP-ColSprings,shargw5
From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: dma@IslandNet.com (Jan Skirrow)
Subject: Need Ferrite Slugs
Message-ID: <m0uvqZG-000VuwC@comm.amtsgi.bc.ca>

Hi Gang ...

I have an HQ-100 that looks great on the outside, but has been heavily modified on the inside. Mostly (I think) the mods involve changing the 20metre BS bandswitch setting to provide 6metre coverage. Can't be sure, 'cuz nothing works on the high bands. The coils that have been added seem to be right for 6 metres.

Anyway, good ol' Art and Ed (these Hammarlund IF transformers, antenna, mixer and oscillator coils were made by someone called ARTED) have left me with the usual lot of jammed and/or broken ferrite slugs. After a delightful hour removing a couple of the broken slugs (dental equipment real helpful here) I decided the antenna coils (and probably the osc/mixer ones as well) will have to come out, and at the same time I'll reverse the mods to tthe 20 metre BS.

I have the antenna coils out, and now need some new slugs. I have a few slugs that seem to fit, but I need more. They seem to be standard 1/4" by 1/2" long threaded cores. The ones I have came from an older solid state (horrors) TV set, so they must be pretty common in older gear.

Does anyone have a handful they'd part with? Or even just a couple will help. I've no idea what these are worth, so state your price!

Thanks

Jan Skirrow, VE7DJX
dma@islandnet.com

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: john <johnmb@mindspring.com>
Subject: Re: Need Ferrite Slugs
Message-ID: <2.2.16.19960828190655.3d275ac0@pop.ral.mindspring.com>

At 02:48 PM 8/28/96 -0500, you wrote:

>Anyway, good ol' Art and Ed (these Hammarlund IF transformers, antenna,

>mixer and oscillator coils were made by someone called ARTED)

: -)

Artted was still a going concern magnetics house about 8 or so years ago.
If you like, I could check the sources at work tomorrow and get you
a phone number ...

/john

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: lkayser@rideau.net (Larry Kayser)
Subject: Programable Power Supplies as Amplifiers
Message-ID: <199608281311.JAA11622@mail.peterboro.net>

A few years go I found a bunch of 48V high performance programable power supplies rated at 30 amps. The manual was with them and I observed there was a programable input that would follow a programming signal. I played around driving them with a signal generator and they followed along pretty well up to at least 8 KC or so.

I showed the supplies to a bunch of heavy metal music types and they thought they had found heaven on earth! With about 50 mfd (660V AC capacitors as I remember it) in series with each output these power supplies cum amplifiers were \$2K US dollars less than the cost of big amplifiers they were used to buying. The neat things about these power supplies was they did not blow up and gave them a very distinctive sound. (As a classically trained musician I have always thought that 20%+ distortion was normal for this type of music)

I offer this as a source of lots of Audio if anyone is into playing around with switching AMPs for AM operation. I recently saw an advert for some 75 V DC, 50 amp supplies with "programmable control", these should be excellent although they weighed some 400 lbs each. Some of the programmable supplies have a low pass filter on the input, bypassing this is important if you want to get above the cut off frequency. Remember please, these are NOT low distortion amps! Below 3 Kc they were not to bad, beyond 4 kc or so it starts to get pretty rough. Have fun.

Larry
va3lk / wa3zia

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: "Cathy Elizabeth D'Entremont" <cdent@tenet.edu>

Subject: Re: Programable Power Supplies as Amplifiers

Message-ID: <Pine.OSF.3.91.960828082820.26250B-100000@francis.tenet.edu>

Hmmm,...verrry interesting. Perhaps a new application for the switching ps that Ben Hall passed my way a while back. It came with all the leads snipped off and I just got around to wiring a new power switch/cord assembly with the thought of using one of the two 12V/5A taps that it has for powering shack accessories. Works fine in this configuration, only problem encountered is that the blower is louder than the one in my SB-220! Seems a little counter-productive to try to power a DSP with it to dig the last dB of a CW sig out of the noise floor while increasing the ambient noise level in the shack by XX dB!

....Now if I drive the thing with my Fender Deluxe (black-face, pre-CBS) ala Stan's "SB-200/4-1000 tester" perhaps I can put that 5.3V @ 35A tap that I couldn't figure out what to do with to better use. Heavy metal indeed!

It's only (BA) Rock and Roll...but I like it!

73, Gerald WA5TVM

cdent@tenet.edu

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996

From: "D.D. Todd" <dube3@n-link.com>

Subject: Re: Re. No Wonder Castro Won!

Message-ID: <3223D3DC.5209@n-link.com>

Thomas A. Adams wrote:

>

> Hello Mike.

>

> Re. Castro and the BC-348 in the Sierra Maestra; I've seen the film footage
> you're referring to in a couple of other places.

>

> Packin' those radios around the mountains is impressive enough, but what I
> wanna see is the poor dude who was stuck with the job of schlepping around the
> power supply!

>

> As Mister Rodgers might say, "Boys and Girls, can YOU say 'Gasoline
> Generator'?"

>

> And I always thought that guerillas always traveled LIGHT!!!

>

>

> 73's,

>

>

> Mr. T., K9TA

Well, you gotta remember: When you're revoluting you gotta make do with whatever you can steal. :)

--

73,

Dube Todd

K4DWW

dube3@n-link.com

"The wear on a hypothesis is proportional to the distance between the extrapolation and the experimental results."

-unknown

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996

From: "William B. Ross" <billross@txdirect.net>

Subject: Re: Rider Manuals

Message-ID: <3223B8D6.639@txdirect.net>

Scott:

SAMS is still alive but they no longer produce equipment manuals. Their primary output is do-it-yourself books on electronics particularly for computers, operating systems, software, netware, etc. SAMS was taken over a few years back. Same name, different company.

Bill K5LLK

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996

From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>

Subject: Schematic and Info on DX Engineering LC-1-32S??

Message-ID: <Pine.SV4.3.91.960827231820.29305A-100000@mesa5.mesa.colorado.edu>

Can anyone provide me with a photocopy and instructions for the DX Engineering LC-1-32S speech processor for the Collins 32S3? I will be glad to pay the cost of photocopying and postage.

Thanks.

Jim Rybak W0KSD

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996

From: JOHN_SEHRING.parti@ecunet.org

Subject: SPRAGUE T0-6

Message-ID: <9608281700.aa18936@pcusa01.ecunet.org>

Someone mentioned a Sprague T0-6 capacitor checker awhile back. Please email me. Thanx.

-John Sehring (08/28/96 11:46 am MT @Baker, Montana) UCC wb2eqg

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: Pete McCollum 28-Aug-1996 1311 -0600 <mccollum@ssdevo.UNET.dec.com>
Subject: spy radios wanted
Message-ID: <9608281916.AA14817@us3rmc.pa.dec.com>

Hi gang,
Keith Melton, a collector of "spy equipment" and the author of several books on the subject, is always looking for all types of espionage communication equipment; including spy radios, concealment devices, etc.

Keith can be reached at 74237.202@CompuServe.COM .
I, too am interested in this sort of stuff; especially RS-1 (GRC-109) gear.

Pete

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: KWDouglas@aol.com
Subject: Re: Thanks and help
Message-ID: <960828103848_395936930@emout16.mail.aol.com>

>
>My help request is for information about ELECTRIC RADIO Magazine
>All I could find was:
>Electric Radio Magazine
>....
>Hesperus, CO.
>
>....How would I get subscription information?
>

Glenn:

They've moved. Try:

Shirley Wiseman, Office Mgr; Barry Wiseman, Editor
Electric Radio
14643 County Rd G
Cortez, CO 81321-9575

Phone/Fax: 970-564-9185
email: er@frontier.net

Subscription: \$28/year 2nd class, \$38/year 1st class. (12
Issues/year).

I think they also have a "trial subscription" or maybe "sample
issue" but I don't see anything about it glancing through the
latest issue. Might check the little ads in the back of QST.

Great little mag. I read it from cover to cover as soon as it hits
the mail box. (No pecuniary interest, just an enthusiastic reader.
I even bought a set of all the back issues!)

73 & happy reading,

Kent, K9JCR
KWDouglas@aol.com

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Greg Carter <kx4r@atl.mindspring.com>
Subject: Tnx for the BC-639 help !!!
Message-ID: <199608281150.HAA03221@itchy.mindspring.com>

Many thanks to everyone who replied with info regarding
the old BC-639-A receiver ! I certainly appreciate everyone's
input.

Love these old boatanchors !

73 for now !
Greg KX4R
kx4r@mindspring.com

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: "Allan Fritsche" <fritsche@msn.com>
Subject: To tired to respond.
Message-ID: <UPMAIL03.199608290213450879@msn.com>

Gang, theres a few guys in the group that I need to make contact with.
Unfortunately, my wife called and said she had a flat tire at work.Had to take
care of that and now so tired I can't keep my eyes open.
I WILL RESPOND ASAP, Dam kinda sorta sounds like I WILL RETURN.

BTW, Iam real proud of Ben and the Houston group of BA'ers. It kinda seems

strange that the only fellow Ive met on the list is Phil Mills and Gerald.
Its probably the old thing, Iam not a Ham and they are.(just kidding).

Your Friend Al
fritsche@msn.com

From boatanchors@theporch.com Wed Aug 28 09:03:58 1996
From: Tim Richardson <tim@america.net>
Subject: Re: TR-20C "Village Radio"
Message-ID: <2.2.32.19960828033734.009c7b44@america.net>

At 12:27 PM 8/27/96 -0500, you wrote:

>Want to buy, and need any sort of info on:

>

>A "Village Radio" TR-20C. It would be Vietnam era equipment with the
>nomenclature plate in both English and Vietnamese. That's all I know about it.
>It's probably something similar to the Hallicrafters HT-1's, but I'm not
>sure.

>

>Thanks,

>Pete

>mccollum@ssdevo.enet.dec.com

>

>

The TR-20 is the base station that was used to communicate with the
Hallicrafters HT-1 handhelds and TR-5 portables. I believe it was a hybrid
radio set using transistors and tubes. It had one crystal controlled channel
between 30 and 40 MHz. Power out was about 20 watts and it operated from
either 12 VDC or 120VAC. It was built by a division of Hallicrafters.

Tim Richardson, WB4HZT, Acworth, GA <tim@america.net>

"Those who cannot remember the past are condemned to repeat it."-Santayana

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: MODSTEPH@ACS.EKU.EDU
Subject: TX-1 "Apache" troubles. Help?
Message-ID: <01I8TFDOVNEC000QM1@ACS.EKU.EDU>

Greetings all:

If not one thing, it is another.

Heath TX-1 "Apache" transmitter which has been working

very well for several years suddenly decided to break. I need replacement belts for the DRIVER and FINAL controls: original were metal strip belts -- any suggestions on replacements, or anyone with a parts Apache which could furninsh them?

Thanks (again!)
73, Al N5AIT
modsteph@acs.eku.edu
Richmond, Kentucky

LOOKING FOR:
Harvey-Wells APS-50 power supply
Morrow RAP-250 power supply
Morrow RVP-250 power supply

From boatanchors@theporch.com Wed Aug 28 21:51:36 1996
From: "Thomas A. Adams" <103360.2133@CompuServe.COM>
Subject: Where have all the SB-620 manuals gone...
Message-ID: <960828174409_103360.2133_JHL186-1@CompuServe.COM>

Greetings, Gang!

There's an old saying that goes "no good deed goes unpunished". Well, my offer of excess manauals has just gotten ME a pretty good shellacking! <GRIN>

When the replies started coming in, it quickly became VERY apparent that the past owners of the Heathkit SB-620 Scanalyser scopes must have eaten the books; there's a hell of a lotta scopes out there, but NOBODY'S got a manual!!! So far, 15 people in dire need have written (and I haven't finished checking today's E-MAIL), offering their first born and any excess bodily appendage I may desire to get that manual!

Ironically, when I went thru the filing cabinet, this gem was found misfiled in a file folder marked "SB-200 TRANSMITTER".

And before you ask, I don't know where the SB-200 manual is! If/when it turns up, it will go on a later list! <GRIN>

To the 18 or 20 folks out there who need this literary classic, let me say only that because of the HEAVY demand I'm gonna make xerox copies, and all who have sent a snailmail address will receive one in due course. This may take a week or so; all

those copies is a LOT of surreptitious xeroxing on the 2nd shift!!!

Postage on these critters should run about three bucks a copy ExpressMail.

Fear not, your need WILL be met! It's just gonna take some time.

73's,

Mr. T., K9TA